INFORMATION

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

EMD OPERATING
PROCEDURES MANUAL
VOL I: FIELD OPERATIONS

Manual No.: New Manual No.: Procedure No.:

Effective Date:

Organization:

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Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

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VOLUME II: GROUNDWATER (GW)
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FO.03	General Equipment Decontamination	2	05/12/92
94-DMR-001021 94-DMR-001010 94-DMR-001224 •95-DMR-000096	Section FO.03 Text Addition LIMITED SCOPE - Section FO.03 Text Modification Equipment Decontamination Location Adjustment Quality Control Samples	2 2 2 2	05/26/94 06/01/94 07/15/94 02/16/95
FO.04	Heavy Equipment Decontamination	2	05/12/92
94-DMR-001009	LIMITED SCOPE - Section FO.04 Text Modification	2	06/01/94
FO.05	Handling of Purge and Development Water	2	05/12/92
94-DMR-000278	Groundwater Monitoring Modifications	2	02/25/94
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FO.07	Handling of Decontamination Water and Wash Water	2	05/12/92
94-DMR-001175	LIMITED SCOPE - Decontamination Water Disposal Location Changes	2	06/20/94
FO.08	Handling of Drilling Fluids and Cuttings	2	05/12/92
94-DMR-001650	Procedural Clarifications	2	09/27/94
FO.09	Handling of Residual Samples	2	05/12/92

DOCUMENT CLASSIFICATION REVIEW WATER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991

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93-DMR-000677 94-DMR-000244 94-DMR-000558 94-DMR-001649	DMR Drying Agent Modification Form Modification Deletion of Text Addressed in FO.08	2 2 2 2	11/01/93 03/14/94 04/15/94 09/27/94
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FO.14	4-B29-ER-OPS-FO.14 - Field Data Management	3	09/09/94
•95-DMR-000097	Revision of Form FO.14L	3	02/16/95
FO.15	Photoionization Detectors and Flame Ionization Detectors	2	05/12/92
•95-DMR-000098	Change to Form FO.15A	2	02/16/95
FO.16	Field Radiological Measurements	2	05/12/92
•95-DMR-000099	Editorial Correction to Form FO.16B	2	02/16/95
FO.18	Environmental Sample Radioactivity Content Screening	1	05/12/92
•95-DMR-000100	Change to necessary forms for FO.18A & FO.18B	1	02/16/95
FO.19	Base Laboratory Work	2	05/12/92

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FO. 23	4-F99-OPS-FO.23 - Management of Soil and Sediment Investigative Derived Materials (IDM)	e 0	01/11/94
94-DMR-000137 94-DMR-000148 94-DMR-001108 94-DMR-001350	Training Requirements Clarification Section FO.23 Modifications Buried Instrumentation and Existing Soil Various Text Additions and Deletions Regarding Drums and Use of SOP FO.29	0 0 0	01/28/94 02/09/94 06/14/94 08/16/94
FO.25	4-B11-ER-OPS-FO.25 - Shipment of Radioactive Materials Samples	0	12/01/93
FO.27	4-BO1-ER-OPS-FO.27 - Collection of Floor/Equipment Hot Water Rinsate Samples	0	07/26/93
FO.29	4-H46-ENV-OPS-FO.29 - Disposition of Soil and Sediment Investigation-Derived Materials	0	06/24/94
94-DMR-001226 94-DMR-001741	Allowance of Procedural Use for Waste Piles	0	07/15/94
94-DMH-001741	Permission of Use of Computer-Generated Forms and Other Minor Corrections	0	10/07/94
FO.30	4-I11-ER-OPS-FO.30 - Environmental Restoration Program Division Equipment Operation	0	10/07/94
FO.31	4-I49-ENV-OPS-FO.31 - Groundwater Recovery/Storage System Normal Operations OU1, Bldg 891	0	11/23/94
FO.32	4-I50-ENV-OPS-FO.32 - Treated Effluent Discharge OU1, Bldg 891	0	04/13/94
FO.33	4-I51-ENV-OPS-FO.33 - Treated Effluent Recirculation OU1, Bldg 891	0	12/22/94
FO.34	4-I52-ENV-OPS-FO.34 - Ion Exchange System - Normal Operations OU1, Bldg 891	0	11/23/94
95-DMR-000061	Addition of OU1 Form	0	02/14/95
FO.35	4-I53-ENV-OPS-FO.35 - Ultraviolet/Hydrogen Peroxide Oxidation System - Normal Operations OU1, Bldg 891	0	11/15/94
95-DMR-000062	Addition of OU1 Form	0	02/14/95
FO.37	4-I55-ENV-OPS-FO.37 - Neutralization Tank - Normal Operations OU1, Bldg 891	0	11/23/94

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FO.38,	4-I56-ENV-OPS-FO.38 - Bulk Chemical Handling, Transfer, and Storage, OU1, Bldg 891	0	12/02/94
FO.39	4-I57-ENV-OPS-FO.39 - Calibration, Operation, and Maintenance of Monitoring and Fluid Handling Equipment OU1, Bldg 891	0	12/02/94
FO.43	4-I61-ENV-OPS-FO.43 - Filter Press Operation and Cleaning OU2 Field Treatability Unit	0	12/16/94
FO.47	4-J39-ENV-OPS-FO.47 - Disposal of Residual Accuvac™ Reagent Ampules	0	02/14/95

Page 1 of <u>1</u> Refer to 1-A01-PPG-001 for Processing Instructions. 1. Date DMR. No. 98-DMR- (YYY) Print or Type All Information (Except Signatures) 1/30/95 2. Existing Document Number/Revision 3. New Docu 5-21000-OPS-FO.15, Rev. 2 Originator's Name/Phone/Page/Location Photoionization Dei (PIDs) and Flame Ionization Craig Cowdery, x6953, Interlocken Bldg. 080 Detectors (FIDs) 7. Document Modification Type (Check only one) 6. Document Type Procedure □ Other □ New □ Revision □ Intent Change ☑ Nonintent Change □ Editorial Correction □ Cancellation 8. Item 9. Page 10. Step 11. Proposed Modifications 1 6 9.0 Change "Form FO.15A, Calibration Record, will be used to document daily calibrations." To "Form FO.15A, Calibration Record, or an equivalent form, will be used to document daily calibration." 12. Justification (Resson for Modification, EJO#, TP#, etc.) 12. Justification (Remon for Modulications, 2007, 117, 000.)

Limited Application to OUS, OU9, OU10, OU12, OU13, OU14, and the Well Abandonment and Replacement Program. This change is required to permit the use of a substantially similar form that contains additional pertinent calibration information. vision, list concurring disciplines in Block 13, and enter N/A in Blocks 14 and 15. If modification is for any type of change or a cancellation, organizations are listed in Block nd signs in Blook 14, and dates in Blook 15. 14. Print and Sign (if applicable 15. Date (if applicable) 2.13.95 No Training Require N/R Bruce D. Peterman REVIEWED FOR CLASSIFICATION/UCNI BY received for distribution 2/15/95 Dans DATE

PHOTOIONIZATION DETECTORS (PIDS) AND FLAME IONIZATION DETECTORS (FIDS)

EG&G ROCKY FLATS PLANT

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PHOTOIONIZATION DETECTORS (PIDS) AND FLAME IONIZATION DETECTORS (FIDS)

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PIDs and FIDs will be checked periodically during use to ensure that they are responding to contaminants. A Magic Marker® used as a source of volatile gas works well to demonstrate that the instrument is responding.

The manufacturer's operating manual will be used for the operation, calibration, maintenance, and care of FIDs and PIDs. The manual will be present on site at all times.

9.0 DOCUMENTATION

Use of PIDs and FIDs will be in accordance with the Health and Safety Plan or SOPs requiring its use. Observations or calculations will be documented by personnel in a bound, water-proof field notebook. Observations that need to be documented will be entered into the site manager's daily logbook. Entries will be signed and dated by field personnel making the entries. Form FO.15A, Calibration Record, or an equivalent form, will be used to document daily calibrations. The Calibration Record asks for the following information:

- Date/Time.
- Initial Response Initial Response is the first meter reading obtained with calibration gas to either adjust instrument or note how far off the instrument is drifing depending on whether an HNu or Thermal Environmental is used.
- Alarm Setting.
- Calibration Sequence Initiated Cal sequence is a feature specific to the Thermal Environmental System Model 580B. Calibration must be done twice on